

Title (en)
DEVICE FOR SIMULTANEOUSLY CARRYING OUT A PLURALITY OF CHEMICAL REACTION STEPS

Publication
EP 0181491 B1 19890628 (DE)

Application
EP 85112725 A 19851008

Priority
CH 499484 A 19841018

Abstract (en)
[origin: EP0181491A1] 1. Claims for the Contracting States : BE, GB, NL, AT An apparatus for performing chemical reaction sequences, characterized by a first number n of reaction discs (1) which are superposed in the form of a stack and are individually displaceable relative to one another, means for defining the displacement in a second number m of identical steps, m continuous bores (11, 14) disposed in the discs at the step distances from one another, one of the bores being widened out per disc to form a reaction chamber (14), means for retaining a support material in the reaction chamber on the flow of a reagent there-through. 1. Claims for the Contracting States : DE, FR, IT, CH, LI, SE An apparatus for performing chemical reaction sequences having a first number n of reaction discs (1) which are superposed in the form of a stack and are individually displaceable relative to one another, means for defining the displacement in a second number m of identical steps, m continuous bores (11, 14) disposed in the discs at the step distances from one another, one of the bores being widened out per disc to form a reaction chamber (14), means for retaining a support material in the reaction chamber on the flow of a reagent therethrough, characterized in that the undersides of the reaction discs have grooves extending concentrically to the bores and containing O-rings.

IPC 1-7
B01J 19/24; C07H 21/00; C07K 1/00

IPC 8 full level
B01L 99/00 (2010.01); **B01J 19/00** (2006.01); **B01J 19/24** (2006.01); **C07H 21/00** (2006.01); **C07H 21/04** (2006.01); **C07K 1/00** (2006.01); **C40B 40/06** (2006.01); **C40B 40/10** (2006.01); **C40B 60/14** (2006.01)

CPC (source: EP)
B01J 19/0046 (2013.01); **C07H 21/00** (2013.01); **B01J 2219/00313** (2013.01); **B01J 2219/00326** (2013.01); **B01J 2219/00488** (2013.01); **B01J 2219/005** (2013.01); **B01J 2219/00585** (2013.01); **B01J 2219/0059** (2013.01); **B01J 2219/00596** (2013.01); **B01J 2219/00722** (2013.01); **B01J 2219/00725** (2013.01); **C40B 40/06** (2013.01); **C40B 40/10** (2013.01); **C40B 60/14** (2013.01)

Citation (examination)
EP 0164206 A1 19851211 - HAMILL BRENDAN JAMES

Cited by
US6989133B1; DE10042871A1; EP0363066A3; US5137698A; DE4328456A1; EP0658566A1; FR2714061A1; DE4206488A1; US5538694A; EP0260634A3; AU572849B2; DE112004002936B4; DE112004003058B4; US6469157B1; WO9603212A1; WO0040330A3; WO8910188A1; US6623703B1; US6825339B2; EP0164206B1

Designated contracting state (EPC)
AT BE CH DE FR GB IT LI NL SE

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